

What is claimed is:

1. A transmitting circuit using plural transmission frequency bands, comprising:

an input stage amplifier for amplifying an input
5 signal;

an operating condition setting circuit for controlling an optimally amplified frequency band by setting an operating condition of the input stage amplifier;

a high-pass filter and a low-pass filter connected to
10 an output of the input stage amplifier;

a high-frequency-band last stage amplifier, disposed corresponding to the high-pass filter, for amplifying a signal of frequency band passed by the high-pass filter; and

15 a low-frequency-band last stage amplifier, disposed corresponding to the low-pass filter, for amplifying a signal of frequency band passed by the low-pass filter.

2. The transmitting circuit as set forth in claim 1, wherein the input stage amplifier is composed of
20 transistors, and

wherein the operating condition setting circuit sets a bias voltage of the transistors.

3. The transmitting circuit as set forth in claim 1, wherein the high-pass filter and the high-frequency-
25 band last stage amplifier correspond to the DCS 1800 frequency band, and

wherein the low-pass filter and the low-frequency-band

last stage amplifier correspond to the GSM 900 frequency band.

4. The transmitting circuit as set forth in claim 1,
wherein the input stage amplifier is a class C
5 amplifier.

5. The transmitting circuit as set forth in claim 1,
wherein all the amplifiers and filters are formed on
the same semiconductor die.

6. The transmitting circuit as set forth in claim 1,
10 wherein each of the amplifiers is produced by GaAs
process.

7. A communication terminal unit, comprising:
an antenna for transmitting and receiving a signal;
a receiving circuit for amplifying the signal received
15 by the antenna;

a demodulating circuit for demodulating the signal
received from the receiving circuit;

a base band signal processing circuit for processing
the demodulated signal;

20 a modulating circuit for modulating the signal
processed by the base band signal processing circuit;

a transmitting circuit for amplifying the modulated
signal to transmit, the transmitting circuit being as set
forth in one of claims 1 to 6;

25 means for designating a transmission frequency band to
the operating condition setting circuit of the transmitting
circuit; and

a switching circuit for selectively connecting the receiving circuit or the transmitting circuit to the antenna.

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